

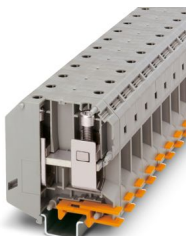
UKH 95 - High-current terminal block



3010013

<https://www.phoenixcontact.com/au/products/3010013>

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High-current terminal block, nom. voltage: 1000 V, nominal current: 232 A, number of connections: 2, connection method: Screw connection, Rated cross section: 95 mm², cross section: 25 mm² - 95 mm², mounting type: NS 35/15, NS 32, color: gray

Your advantages

- Reliable cable connection is ensured by three-point centering of the conductor in the prismatic sleeve base
- Low contact resistance of the contact surface due to ribbing
- Screw locking by means of spring-loaded elements in the clamping part

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 3010013 |
| Packing unit | 3 pc |
| Minimum order quantity | 3 pc |
| Sales key | BE1311 |
| Product key | BE1311 |
| Catalog page | Page 195 (C-1-2019) |
| GTIN | 4017918091835 |
| Weight per piece (including packing) | 228.5 g |
| Weight per piece (excluding packing) | 204 g |
| Customs tariff number | 85369010 |
| Country of origin | CN |

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Technical data

Notes

| | |
|---------|---|
| General | Screws with hexagonal socket |
| General | |
| Note | For a reliable contact of multi stranded conductors it is recommended to untwist multi stranded conductors. |

Product properties

| | |
|-----------------------|-----------------------------|
| Product type | High current terminal block |
| Number of connections | 2 |
| Number of rows | 1 |
| Potentials | 1 |

Insulation characteristics

| | |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution | 3 |

Electrical properties

| | |
|---|--------|
| Rated surge voltage | 8 kV |
| Maximum power dissipation for nominal condition | 7.54 W |

Connection data

| | |
|---------------------------------|--------------------|
| Number of connections per level | 2 |
| Nominal cross section | 95 mm ² |

Level 1 above 1 below 1

| | |
|---|---|
| Screw thread | M8 |
| Note | Screws with hexagonal socket |
| Tightening torque | 15 ... 20 Nm |
| Stripping length | 33 mm |
| Connection in acc. with standard | IEC 60947-7-1 |
| Conductor cross section rigid | 25 mm ² ... 95 mm ² |
| Cross section AWG | 2 ... 3/0 (converted acc. to IEC) |
| Conductor cross section flexible | 35 mm ² ... 95 mm ² |
| Conductor cross section, flexible [AWG] | 1/0 ... 3/0 (converted acc. to IEC) |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 35 mm ² ... 95 mm ² |
| Flexible conductor cross section (ferrule with plastic sleeve) | 35 mm ² ... 95 mm ² |
| Cross-section with insertion bridge, rigid | 95 mm ² |
| Cross-section with insertion bridge, flexible | 70 mm ² |
| 2 conductors with same cross section, solid | 25 mm ² ... 35 mm ² |
| 2 conductors with same cross section, flexible | 25 mm ² ... 35 mm ² |
| 2 conductors with same cross section, flexible, with ferrule without plastic sleeve | 16 mm ² ... 35 mm ² |

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| | |
|-----------------------|--|
| Nominal current | 232 A |
| Maximum load current | 232 A |
| Nominal voltage | 1000 V |
| Note | Note: Product releases, connection cross sections and notes on connecting aluminum cables can be found in the download area. |
| Nominal cross section | 95 mm ² |

Ex data

Rated data (ATEX/IECEX)

| | |
|-----------------------------------|--|
| Identification | Ⓔ II 2 GD Ex eb IIC Gb |
| Operating temperature range | -60 °C ... 110 °C |
| Ex-certified accessories | 1201934 VDE-ISS 6 |
| | 1201659 E/AL-NS 32 |
| | 1201662 E/AL-NS 35 |
| List of bridges | Insertion bridge / EB 2-25/UKH / 0201362 |
| | Insertion bridge / EB 3-25/UKH / 0201375 |
| Bridge data | 177 A (95 mm ²) |
| Ex temperature increase | 40 K (238.1 A / 95 mm ²) |
| at bridging with insertion bridge | 690 V |
| Rated insulation voltage | 800 V |
| output | (Permanent) |

Ex level General

| | |
|----------------------|---------|
| Rated voltage | 880 V |
| Rated current | 216 A |
| Maximum load current | 216 A |
| Contact resistance | 0.06 mΩ |

Ex connection data General

| | |
|---|---|
| Torque range | 15 Nm ... 20 Nm |
| Nominal cross section | 95 mm ² |
| Rated cross section AWG | 3/0 |
| Connection capacity rigid | 25 mm ² ... 95 mm ² |
| Connection capacity AWG | 4 ... 3/0 |
| Connection capacity flexible | 35 mm ² ... 95 mm ² |
| Connection capacity AWG | 2 ... 3/0 |
| 2 conductors with same cross section, solid | 25 mm ² ... 35 mm ² |
| 2 conductors with the same cross-section AWG rigid | 4 ... 2 |
| 2 conductors with same cross section, stranded | 25 mm ² ... 35 mm ² |
| 2 conductors with the same cross-section AWG flexible | 4 ... 2 |

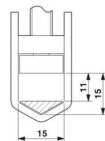
Dimensions

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| | |
|---------------------|--|
| Dimensional drawing |  |
| Width | 25 mm |
| Height | 83 mm |
| Depth | 90 mm |
| Depth on NS 32 | 95 mm |
| Depth on NS 35/7,5 | 90 mm |
| Depth on NS 35/15 | 90 mm |

Material specifications

| | |
|--|-----------------|
| Color | gray (RAL 7042) |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | PA |
| Static insulating material application in cold | -60 °C |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26 | HL 1 - HL 3 |
| Surface flammability NFPA 130 (ASTM E 162) | passed |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed |
| Smoke gas toxicity NFPA 130 (SMP 800C) | passed |

Electrical tests

Surge voltage test

| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

Temperature-rise test

| | |
|---|-------------------------------------|
| Requirement temperature-rise test | Increase in temperature ≤ 45 K |
| Result | Test passed |
| Short-time withstand current 95 mm ² | 11.4 kA |
| Result | Test passed |

Power-frequency withstand voltage

| | |
|-----------------------|-------------|
| Test voltage setpoint | 2.2 kV |
| Result | Test passed |

Mechanical properties

General

| | |
|-------------------------|-----------------|
| Terminal block mounting | 15 Nm ... 20 Nm |
|-------------------------|-----------------|

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Mechanical data

| | |
|-----------------|----|
| Open side panel | No |
|-----------------|----|

Mechanical tests

Mechanical strength

| | |
|--------|-------------|
| Result | Test passed |
|--------|-------------|

Attachment on the carrier

| | |
|-------------------------|-------------|
| DIN rail/fixing support | NS 32/NS 35 |
| Result | Test passed |

Test for conductor damage and slackening

| | |
|--------------------------------|-----------------------------|
| Rotation speed | 10 (+/- 2) rpm |
| Revolutions | 135 |
| Conductor cross section/weight | 25 mm ² / 4.5 kg |
| | 35 mm ² / 6.8 kg |
| | 95 mm ² /14 kg |
| Result | Test passed |

Environmental and real-life conditions

Needle-flame test

| | |
|------------------|-------------|
| Time of exposure | 30 s |
| Result | Test passed |

Oscillation/broadband noise

| | |
|------------------------|--|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Spectrum | Long life test category 2, bogie-mounted |
| Frequency | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level | 6.12 (m/s ²) ² /Hz |
| Acceleration | 3.12g |
| Test duration per axis | 5 h |
| Test directions | X-, Y- and Z-axis |
| Result | Test passed |

Shocks

| | |
|--------------------------------|-------------------------------------|
| Specification | DIN EN 50155 (VDE 0115-200):2022-06 |
| Pulse shape | Half-sine |
| Acceleration | 5g |
| Shock duration | 30 ms |
| Number of shocks per direction | 3 |
| Test directions | X-, Y- and Z-axis (pos. and neg.) |
| Result | Test passed |

Ambient conditions

| | |
|---------------------------------|--|
| Ambient temperature (operation) | -60 °C ... 110 °C (Operating temperature range incl. self-heating; |
|---------------------------------|--|

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| | |
|--|---|
| | for max. short-term operating temperature, see RTI Elec.) |
| Ambient temperature (storage/transport) | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C) |
| Ambient temperature (assembly) | -5 °C ... 70 °C |
| Ambient temperature (actuation) | -5 °C ... 70 °C |
| Permissible humidity (operation) | 20 % ... 90 % |
| Permissible humidity (storage/transport) | 30 % ... 70 % |

Standards and regulations

| | |
|----------------------------------|---------------|
| Connection in acc. with standard | IEC 60947-7-1 |
|----------------------------------|---------------|

Mounting

| | |
|-------------------------|-----------------|
| Mounting type | NS 35/15 |
| | NS 32 |
| Terminal block mounting | 15 Nm ... 20 Nm |

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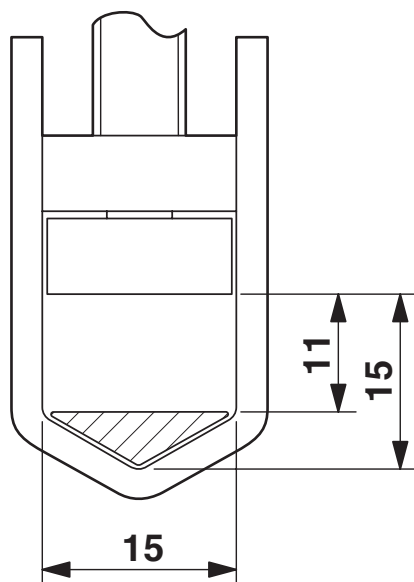
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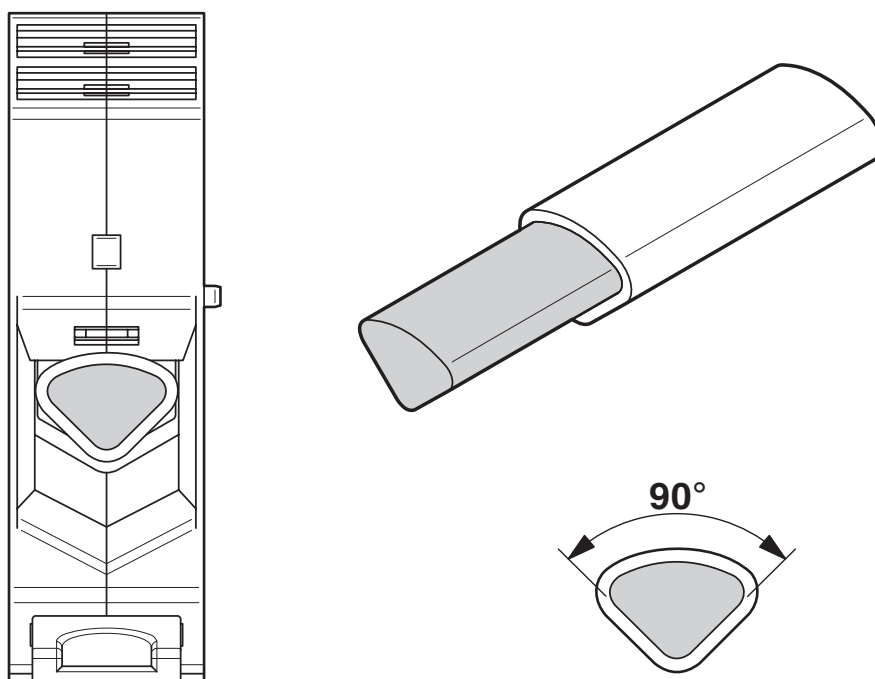


Drawings

Dimensional drawing



Schematic diagram



Connecting aluminum cables. Further notes can be found in the download area

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Circuit diagram



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/3010013>


|  CSA Approval ID: 13631 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Use group B | 600 V | 200 A | 2 - 4/0 | - |
| | | | | |
| Use group C | 600 V | 200 A | 2 - 4/0 | - |
| | | | | |

|  cULus Recognized Approval ID: E60425 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| Use group B | 600 V | 230 A | 2 - 4/0 | - |
| | | | | |
| Multi-conductor connection | 600 V | 230 A | 4 - 2 | - |
| Use group C | 600 V | 230 A | 2 - 4/0 | - |
| | | | | |
| Multi-conductor connection | 600 V | 230 A | 4 - 2 | - |

|  KEMA-KEUR Approval ID: 71-116392 | | | | |
|--|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 1000 V | - | - | - 95 |

| | | | | |
|--|--|--|--|--|
|  LR Approval ID: LR2041789TA-02 | | | | |
|--|--|--|--|--|

| | | | | |
|---------------------------------------|--|--|--|--|
| DNV Approval ID: TAE00001CT | | | | |
|---------------------------------------|--|--|--|--|

| | | | | |
|---|--|--|--|--|
|  ATEX Approval ID: KEMA98ATEX1786U | | | | |
|---|--|--|--|--|

| | | | | |
|---|--|--|--|--|
|  EAC Ex Approval ID: KZ 7500525010101950 | | | | |
|---|--|--|--|--|

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IECEx
Approval ID: IECEx KEM 06.0029U



CCC
Approval ID: 2020322313000623



UKCA-EX
Approval ID: DEKRA 21UKEX0307U

| UL Comp Hazloc CA US | | | | |
|--------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| Approval ID: UL US CA L 192998 | | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 600 V | 230 A | 2 - 4/0 | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27250101 |
|-------------|----------|

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC000897 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

| | |
|---|--|
| EU RoHS | |
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
| China RoHS | |
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |
| EU REACH SVHC | |
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
| EF3.0 Climate Change | |
| CO2e kg | 1.347 kg CO2e |

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